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voltage discriminator integrator threshold noise xray

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to decouple it from DC **voltage** shifts in the front- end. The **discriminator** is constructed by using time-over-**threshold** technique. An externally ad- ... pixel cells with low gain or high **noise** is very small. ... the energy **integrator**. 4. Conclusion. A readout chip for medical **X-ray** imaging has ...

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**threshold discriminator** scheme has been measured extensively to determine the conditions for optimum ... frontend circuit combines signal charge **integration**, output ..... tional bias **voltage** is necessary due to the special biassing of the cascode pair. ... **noise** for **X-ray** spectroscopy", IEEE Trans. Nucl. Sci. ...

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**integration** and detectors which work in the single-photon counting mode. ..... intensity **x-ray** radiation) leads to higher **noise** performance, ... architecture the **threshold voltage** of **discriminators** is common for all channels. ...

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matching of **threshold voltage** and transconductance ... how to measure **threshold** and **noise** with a **discriminator**: .... Counting and Integrating **X-ray** Imaging. Photon counter [kcps] ... **Integrator** current [pA] ...

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... increase in the time needed to collect data with good signal to **noise**), ... These Diamond Electron Tubes **X-ray** (DELT-X) detectors were used as the basis of the ... of the **voltage** parameters (PMT bias **voltage**, **discriminator threshold** and .... The **integration** of N, observed at operational bias voltages (insert ...

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